BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2000000.00

Name of Work: Detailed Estimate for the work of Providing Asphalting to main and cross roads of Someshwaranagara in ward No-04.

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)	cum							
	for RCC drain		1	110.00	1.00	1.00	110.00		
							110.00	200.34	22037.00
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
			Vide Item No. 1				110.00	85.65	9421.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4	12.80							
		80.80							
	Area Weightage @ 6%	4.85							
	Total	85.65							

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)/ PWD SR 2016-17	Cum							
	for RCC drain		1	110.00	1.00	0.15	16.50		
							16.50	**5159.02**	**85124.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
4	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	for RCC drain bed		1	110.00	0.90	0.15	14.85		
	side walls	2x2	2	110.00	0.15	0.70	23.10		
							37.95	**6371.66**	**241804.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal							
	for RCC drain 70 kg/cum		0.700	37.95			26.57		
				37.95			26.57	5605.00	148897.00
	Basic Rate	5605.00							
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2016-17	sqm							
	for rcc drain	1x4	4	110.00		0.70	308.00		
							308.00	310.58	95659.00
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	310.58							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	RCC Precast covering slab for drain (10cm thick)	sqm							
			1	110.00	0.75		82.50		
							82.50	2100.00	173250.00
	Rate Approved by BBMP	2100.00							
8	**Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per Specifications. (P.No.157 & I.No.21.2)	Sqm							
			1	110.00	7.00		770.00		
			1	65.00	6.50		422.50		
			1	55.00	7.00		385.00		
			1	35.00	5.00		175.00		
			1	75.00	5.00		375.00		
			1	45.00	6.00		270.00		
							2397.50	3.18	7624.00
	Basic Rate	3.00							
	Area Weightage @ 6%	0.18							
	Total	3.18							
9	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)	Cum							
	either side of road edge		2	110.00	1.00	0.15	33.00		
			2	65.00	1.00	0.15	19.50		
			2	55.00	1.00	0.20	22.00		
			2	35.00	1.00	0.15	10.50		
			2	75.00	1.00	0.15	22.50		
			2	45.00	1.00	0.20	18.00		
	road cutting portion		1	75.00	1.50	0.20	22.50		
							148.00	1768.08	261676.00
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	1768.08							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)	cum							
	either side of road edge		2	110.00	1.00		220.00		
			2	65.00	1.00		130.00		
			2	55.00	1.00		110.00		
			2	35.00	1.00		70.00		
			2	75.00	1.00		150.00		
			2	45.00	1.00		90.00		
	road cutting portion		1	75.00	1.50		112.50		
							882.50	27.56	**24322.00**
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
11	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)	Cum							
			1	110.00	7.00	0.050	38.50		
			1	65.00	6.50	0.050	21.13		
			1	55.00	7.00	0.050	19.25		
			1	35.00	5.00	0.050	8.75		
			1	75.00	5.00	0.050	18.75		
			1	45.00	6.00	0.050	13.50		
							119.88		
	consider 25% of camber correction						24.00		
							24.00	6435.26	**154446.00**
	Basic Rate	6071.00							
	Area Weightage @ 6%	364.26							
	Total	**6435.26**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRRB 500-7:Providing and **applying tack coat with bitumen emulsion** using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)	sqm							
			1	110.00	7.00		770.00		
			1	65.00	6.50		422.50		
			1	55.00	7.00		385.00		
			1	35.00	5.00		175.00		
			1	75.00	5.00		375.00		
			1	45.00	6.00		270.00		
							2397.50	14.84	**35579.00**
	Basic Rate	14.00							
	Area Weightage @ 6%	0.84							
	Total	**14.84**							
13	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)	Cum							
			1	110.00	7.00	0.040	30.80		
			1	65.00	6.50	0.040	16.90		
			1	55.00	7.00	0.040	15.40		
			1	35.00	5.00	0.040	7.00		
			1	75.00	5.00	0.040	15.00		
			1	45.00	6.00	0.040	10.80		
							95.90	7270.54	**697245.00**
	Basic Rate	6859.00							
	Area Weightage @ 6%	411.54							
	Total	**7270.54**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface-providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)	Sqm							
			2	110.00	0.10		22.00		
			2	65.00	0.10		13.00		
			2	55.00	0.10		11.00		
			2	35.00	0.10		7.00		
			2	75.00	0.10		15.00		
			2	45.00	0.10		9.00		
							77.00	542.72	41789.00
	Basic Rate	512.00							
	Area Weightage @ 6%	30.72							
	Total	542.72							
15	Miscellaneous charges								1127.00
								Total	2000000.00

(Rupees Twenty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Satellite town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

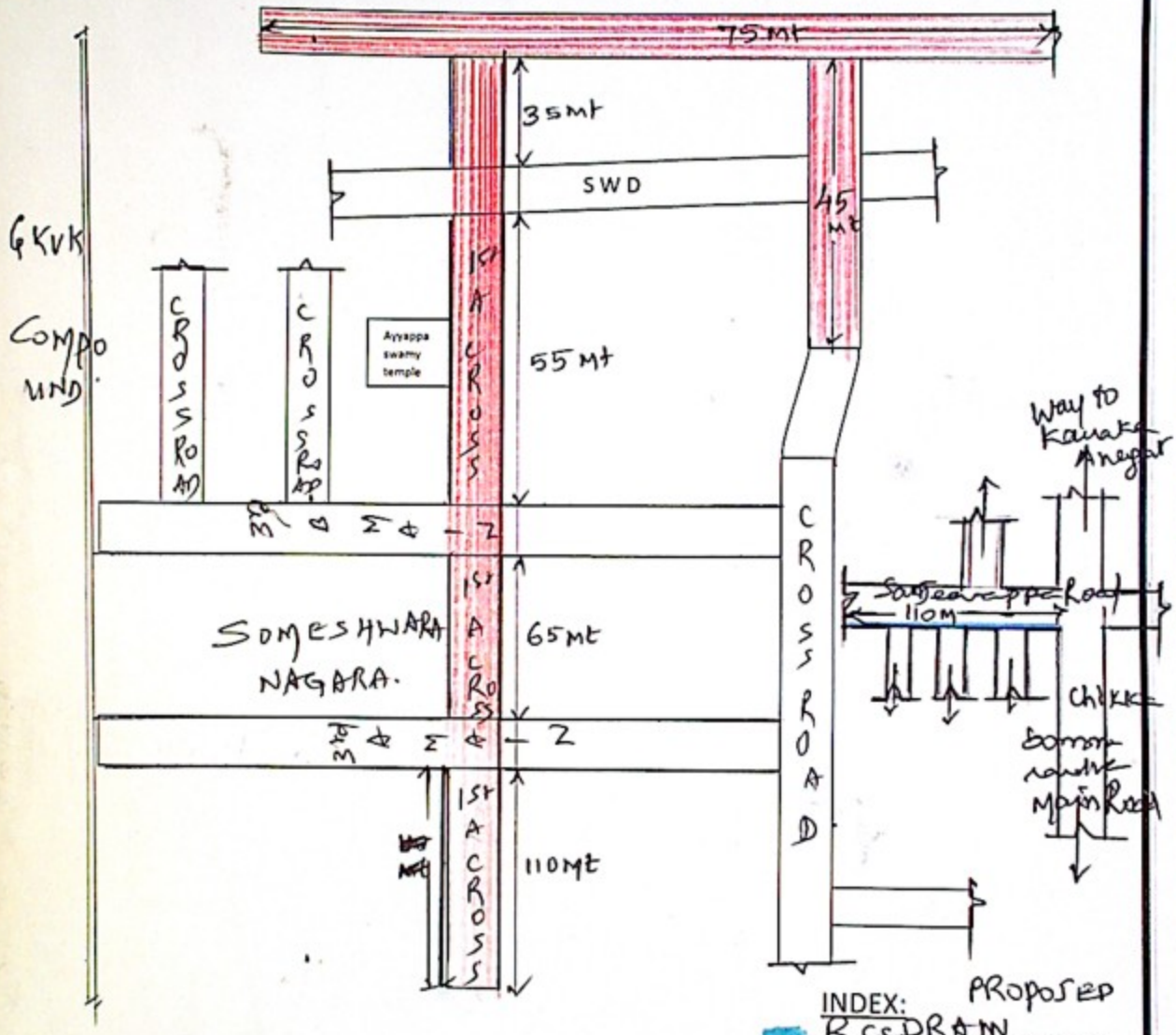
Administrative Approval
Accorded For 20.00 lakhs.
Head of A/C... P1771
CER NO :... 205 Dt: 16.2.17

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs 20.00/-
Rupees ... Twenty Lakhs ...
Under ... P. 1771-16-17 ...
Registered as CE ( ) No. ... 99
Subject to conditions contained in enclosed memo EE ( ) No. ... /99
Dt. ... Estimate A/ Sanctioned
LE/TS/102/16-17 No. ...
Dated ... 16.2.17 ... Rs. 20.00/-

Executive Engineer

NAME OF WORK:- PROVIDING ~~ASPHALTING~~ TO MAIN & CROSS ROADS OF SOMESHWARANAGARA IN WNo. 04



INDEX: PROPOSED

RCC DRAIN

ASPHALT WORK.

A.E. Ramaj.eenah

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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A.E.E.